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(NASA-TM-X-69520) SKYLAB RESCUE SPACE VEHICLE OAT NO. 1 PLUGS IN TEST (NASA) 46 p HC \$4.50 CSCL 22D N73-32776

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SV-41400R

DATE

JUNE 15, 1973

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SKYLAB RESCUE

SPACE VEHICLE

OAT #1

PLUGS IN TEST

PELEASED FOR RESCUE

THIS TOP CONTAINS
HAZALBOUS OPERATIONS

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SRYLAB RESCUE SPACE VEHICLE OAT #1 PLUGS IN TEST

# THIS TOP CONTAINS HAZARDOUS OPERATIONS

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REPARTOCTY: 6-14-73 EST NITEGRATION BRANCH (LA-PLN-1)	P. C. DONNELLY MANAGER, TEST OPERATIONS (LA-OPN)  Menda A. Cherley
	KSC SAFETY OFFICE

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	A. E. MORSE, JR.
	RESIDENT USC OFFICE

NASA CONCURRENCE/APPROVAL

4.1.2.3.34

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TEST OUTLINE

SPACE VEHICLE OVERALL TEST #1 (PLUGS IN)

1.0 PURPOSE

THE PURPOSE OF THIS TEST IS TO DEMONSTRATE COMPATIBILITY OF THE SPACE VEHICLE SYSTEMS: THE GROUND SUPPORT EQUIPMENT AND OFF-SITE SUPPORT FACILITIES BY PROCEEDING THROUGH A SIMULATED LAUNCH COUNTDOWN: LIFTOFF, AND FLIGHT.

1.1 TEST OBJECTIVE

THE OBJECTIVE OF THIS TEST IS TO SATISFY THOSE SPACE VEHICLE TEST AND CHECKOUT REQUIREMENTS SPECIFIED IN THE TEST AND CHECKOUT REQUIREMENTS MATRIX SECTION OF THE SKYLAB TEST AND CHECKOUT PLAN.

- 1.2 CONSTRAINTS AND GUIDELINES
- 1.2.1 TEST CONFIGURATION

PRIOR TO THE START OF THE TEST, THE LAUNCH VEHICLE AND CSM WILL BE MECHANICALLY AND ELECTRICALLY MATED. THE MOBILE LAUNCHER AND SPACE VEHICLE WILL BE LOCATED AT THE PAD. ALL ORDNANCE SIMULATORS, INFLIGHT SEPARATION SIMULATORS, FUSE BOXES AND ELECTRICAL BY-PASS JUMPERS WILL INSTALLED. ACE CARRY-ON EQUIPMENT WILL BE CONNECTED. THE SPACECRAFT AND LAUNCH VEHICLE HEAVY ORDNANCE WILL BE INSTALLED, BUT NOT CONNECTED.

1.2.2 SIMULATION OF FUNCTIONS

THE FUNCTIONS OF PROPELLANT LOADING, UMBILICAL EJECTION, HOLDDOWN ARM RELEASE, SERVICE ARM RETRACTION, AND LIFTOFF WILL BE SIMULATED. INFLIGHT SEPARATION WILL BE SIMULATED. AN EXTERNAL POWER SOURCE WILL SUPPLY LAUNCH VEHICLE POWER FOLLOWING POWER TRANSFER TO INTERNAL. IU COMMANDS\_WILL BE SIMULATED BY THE DIGITAL COMMAND SYSTEM (DCS).

SV-41400R

#### 1.2.3 OPERATIONAL CONSTRAINTS AND GUIDELINES

- A. FLIGHT PROGRAMS AND SEQUENCERS WILL OPERATE ON ACCELERATED TIME SCALE WHEN POSSIBLE.
- B. MANNED PARTICIPATION IN THE CSM IS REQUIRED.
- C. LAUNCH SUPPORT EQUIPMENT WILL BE CONFIGURED TO INSURE AGAINST ACTUATION OF UMBILICALS, SERVICE ARMS, TAIL SERVICE MASTS, HOLDDOWN ARMS, AND INDUSTRIAL WATER SYSTEMS.

#### 1.2.4 SAFETY

THE OVERALL TEST (PLUGS IN) IS CONSIDERED TO BE HAZARDOUS BECAUSE SPACE VEHICLE HEAVY ORDNANCE IS INSTALLED. ALSO, HAZARDOUS OPERATIONS, SUCH AS APPLICATION OF HYDRAULICS AND PNEUMATICS, VENTING OF TANKS, AND GIMBALING OF ENGINES OCCUR IN LOCALIZED AREAS.

#### 1.3 TEST DESCRIFTION

ALL APPLICABLE SYSTEMS OF THE LAUNCH VEHICLE, SPACECRAFT, AND GSE WILL BE PREPARED AND CONDITIONS FOR PREPARATIONS COMPLETE WILL BE ACHIEVED. THE AUTOMATIC SEQUENCE. WILL GENERATE STIMULI TO THE GSE THROUGH COMMIT AND SIMULATED LIFTOFF. UMBILICAL EJECTION, HOLDDOWN ARM RELEASE, AND SERVICE ARM RETRACTION WILL BE SIMULATED IN THE ESE. PRIOR TO START OF TERMINAL COUNT SEQUENCE (TCS), SV EDS CHECKS WILL BE MADE; AND THE DDP 224 DISPLAY COMPUTER WILL BE FAILED WITH SWITCHOVER TO ALTERNATE FIRING ROOM VERIFIED; A FORCE JUMP WILL BE INITIATED IN THE ML COMPUTER; AND AUTOMATIC RECOVERY WILL BE VERIFIED.

AFTER START OF TCS THE ML AND LCC 110A COMPUTERS WILL BE FAILED TO VERIFY LAUNCH CAPABILITY WITHOUT THE GROUND COMPUTER SYSTEMS.

A COMPLETE FLIGHT MISSION WILL BE RUN EMPLOYING TB UPDATES. RANGE SAFETY COMMANDS WILL BE SENT TO CHECK THE RSCR SYSTEM: AND THE SPACECRAFT.

A SCYLV TEST WILL BE PERFORMED TO VERIFY PROPER OPERATION TO THE ASTRONAUT'S HAND CONTROLLER WITH THE S-IVB CONTROL SYSTEM.

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#### LIST OF REFERENCES

- 1. LAUNCH VEHICLE OPERATIONS FOR SPACE VEHICLE OVERALL TEST #1 (PLUGS IN): V-20117.
- 2. SPACECRAFT OPERATIONS FOR SPACE VEHICLE PLUGS IN TEST, K-0006.
- 3. SKYLAB SPACE VEHICLE PLUGS IN OAT #1 OPERATIONS INTERFACE CONTROL CHART.
- 4. SKYLAB 1/SKYLAB 2 AND SUBSEQUENT LC-39 LAUNCH OPERATIONS INSTRUCTIONS: 600-26-002.
- 5. ASTP/SKYLAB SATURN IB SPACE VEHICLE TEST SUPERVISOR EMERGENCY PROCEDURES: SV-46101.
- 6. SKYLAB 2, 3, 4, RESCUE TEST AND CHECKOUT PLAN, VOLUME 1, KHB 8635.5/LO.
- 7. KSC CALL SIGN HANDBOOK, 630-23-0001.
- 8. GROUND SAFETY PLAN, KV-053.
- 9. SECURITY PLAN: KV-052.
- 10. SKYLAB PART I RD 20006.

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#### ACCESS CONTROL

CONTROL OF PERSONNEL IN THE LAUNCH COMPLEX 39 OPERATION AREA IS MANDATORY DUE TO HAZARDOUS CONDITIONS IN LOCALIZED AREAS.

THE CONTROL OF PERSONNEL IN THE OPERATIONAL AREA IS UNDER THE DIRECTION OF THE TEST SUPERVISOR. THE GROUND SAFETY PLAN AND THE SECURITY PLAN WILL GOVERN DURING THE SV PLUGS IN TEST. THE NUMBER OF PERSONNEL EXPOSED TO HAZARDOUS OPERATIONS WILL BE CONTROLLED BY THE HAZARDOUS OPERATIONS MANLOADING DOCUMENT AS APPROVED BY THE TEST SUPERVISOR AND KSC SAFETY FOR ALL OPERATIONS, ANY CHANGES TO MANLOADING DURING THE PERFORMANCE OF THE TEST/OPERATION MUST HAVE THE CONCURRENCE OF THE KSC SAFETY REPRESENTATIVE.

SV-4140nR SKYLAB R

#### INTERCOMMUNICATIONS INFORMATION

#### ALL-AREA-PAGING EM PA

TO BE USED FOR ALL AREA ANNOUNCEMENTS SUCH AS, PERSONNEL CLEARING FOR ORDNANCE OPERATIONS IN THE VAB OR FOR EMERGENCIES. (THE TOGGLE SWITCH FOR THE MICROPHONE ON THE TEST SUPERVISOR'S CONSOLE WILL BE IN THE EMERGENCY POSITION.)

#### PAGING (CH.) 188 (PA)

TO BE USED FOR OPERATIONAL ANNOUNCEMENTS WITHIN THE OPERATIONAL AREA OF A SPECIFIC OIS MISSION BUS. PA OPERATES AT LAUNCH COMPLEX 39, INCLUDING THE VAB, LCC, AND PADS, PA DOES NOT GO TO THE CIF OR ORC DUILDINGS.

#### OPERATIONAL INTERCOMMUNICATIONS SYSTEM (OIS)

THE TEST AND CHECKOUT OPERATIONAL COMMUNICATIONS ARE UTILIZED AS ASSIGNED OR INDICATED IN THE PROCEDURE FOR THE TEST OPERATIONS. COORDINATION BY THE SPACE VEHICLE TEST SUPERVISOR WILL NORMALLY BE CONDUCTED OVER OIS CHANNEL 181. IF THE TEST SUPERVISOR IS UNABLE TO REACH AN ORGANIZATION ON OIS CHANNEL 181. ONLY THEN WILL HE SWITCH TO THAT ORGANIZATION'S PRIMARY ASSIGNED CHANNEL. TEST SUPERVISORY PERSONNEL SHOULD ALWAYS BE AVAILABLE ON THE FOLLOWING CIRCUITS

	181
	121
	261
•	212
	125
	231
	266
	241
•	
	251
	116.
	122
	114

#### SPACE VEHICLE TEST SUPERVISOR OIS SPECIAL COORDINATION CHANNEL

CHANNEL 178 HAS BEEN DELEGATED TO THE SV TEST SUPERVISOR AS AN AUXILIARY CHANNEL. THIS CHANNEL WHICH IS CO-SHARED WITH ATM ATTITUDE AND POINTING CONTROL SYSTEMS OPERATIONS MAY BE UTILIZED AT THE DISCRETION OF THE SV TEST SUPERVISOR TO RESOLVE PROBLEMS INVOLVED WITH TEST SUPPORT ACTIVITIES AND FOR CONFERENCE DISCUSSIONS WITH THE KSC WEATHER STATION.

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#### SUPERINTENDENT OF RANGE OPERATIONS (SRO)

THE SRO HAS ACCESS TO OIS CHANNELS 181, 121, 261, AND 264. THE TEST SUPERVISOR WILL REQUEST THE SRO TO SWITCH TO ONE OF THESE CHANNELS WHEN HIS ACTIVE PARTICIPATION IS REQUIRED. NORMALLY, THE SRO WILL MONITOR ROUTINE TEST COMMUNICATIONS WITH THE TEST SUPERVISOR.

#### PAD TEST SUPERVISOR (PVTS)

AN ASSISTANT TEST SUPERVISOR WILL BE LOCATED AT THE PAD DURING TIMES OF OPEN PAD CONDITIONS TO MONITOR THE OPERATIONS AND ASSESS PROBLEM AREAS FOR THE TEST SUPERVISOR. HE WILL COORDINATE OPERATIONS AT THE PAD FOR THE TEST SUPERVISOR AND WILL UTILIZE OIS CHANNEL 181.

#### OIS SYSTEM TROUBLE REPORTING

TO REPORT TROUBLES OR REQUEST ASSISTANCE IN THE USE OF THE OIS SYSTEM, CONTACT JROL (ALL AREAS). OR YROL (O&C, CIF) ON OIS CHANNEL 117. IF TROUBLE PREVENTS USE OF OIS, CONTACT COMMUNICATIONS CONTROL CONSOLE ON 867-4141.

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#### HEADSET INTEGRITY CHECK

A HEADSET, HEADSET CORD, AND EXTENDER CABLE INTEGRITY CHECK WILL BE MADE BY EACH USER OF THE OIS SYSTEM EACH TIME HE COMES ON STATION TO SUPPORT THE SPACE VEHICLE LAUNCH COUNTDOWN.

WHEN COMING ON STATION, HE WILL REPORT TO HIS IMMEDIATE SUPERVISOR USING ONE OF THE FOLLOWING PROCEDURES

- A. IF THE HEADSET IS CONNECTED DIRECTLY TO AN OIS-RF END INSTRUMENTS
  - 1. SELECT YOUR SUPERVISOR'S PRIME CHANNEL ON THE ACTIVE DIAL.
  - 2. REPORT TO YOUR SUPERVISOR STATING CALL SIGN AND POSITION.
  - 3. SELECT CHANNEL 274 ON THE MONITOR DIAL. A 1000 HZ TONE WILL BE HEARD.
  - 4. GIVE A SHORT COUNT, E.G. 1, 2, 3, 4, 5, --- 5, 4, 3, 1, 1 ON YOUR ACTIVE CHANNEL.
  - 5. THE SUPERVISOR MONITOR DIAL SHOULD NOT BE SET TO CHANNEL 274.

    IF THE SUPERVISOR HEARS THE 1000 HZ TONE: THE HEADSET IS UNSATISFACTORY AND SHOULD BE REPORTED THROUGH ESTABLISHED CHANNELS.

IF THE SUPERVISOR DOES NOT HEAR THE 1000 HZ TONE, THE HEADSET IS SATISFACTORY.

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- B. IF THE HEADSET IS CONNECTED TO AN EXTENDER CABLE
  - 1. REPEAT ITEMS A.1 THROUGH 5.
  - 2. IF THE RESULTS ARE UNSATISFACTORY (SUPERVISOR HEARS 1000 HZ TONE), THE FOLLOWING IS REQUIRED TO ISOLATE THE PROBLEM TO HEADSET OR EXTENDER CABLE
    - (A) REMOVE HEADSET FROM EXTENDER CABLE AND CONNECT DIRECTLY TO NEAREST AVAILABLE DISTRIBUTENTS.
    - (B) REPEAT ITEMS A.1 THROUGH 5.
    - (C) IF RESULTS ARE STILL UNSATISFACTORY, THE PROBLEM'IS IN THE HEADSET OR HEADSET CORD.
    - (D) IF THE RESULTS ARE SATISFACTORY, THE PROBLEM IS IN THE EXTENDER CABLE.

THE UNSATISFACTORY COMPONENT SHOULD BE REPORTED THROUGH ESTABLISHED CHANNELS.

NOTE

THIS CHECK IS APPLICABLE AT THE O&C AND LC-39.

THOSE USERS HAVING AUDIO CAPABILITY (TYPE 51 UNIT) SHOULD NOT ACCESS ANY OIS CHANNELS THROUGH THE AUDIO SYSTEM FOR THIS CHECK.

END OF HEADSET INTEGRITY CHECK.

TEST NO. VEHICLE

	LADYCH VESTCOSD.	FLIGHT CONTRGE	LV 26.J FLIGHT COMFUTER	7 284 RF 4 TM (DITE- GRUED)	Thouse Sas Alborate Sas Alborat	CONDUCTOR	N°C TIMENG	25.3 CEE :001E	12. 1973
	IN IN TEST CONDICION IN	IN 252 E	Ulim .	Z54 L EU STFU-	5 5			CEE 256 LS CEE NOTE NOTE	REV 5 JUNE 12.
	S-IVE TEST CONSUCTOR	LV 242 7 5-EV3 MDCHANICAL 1	S-IVB ELECTAICAL	S-IVB INSTRU-	PROPEL- I LANT C FUEL)	INS 246 L	SO 247 5 MOBILE LAUNCHER STRUCTURE	219 SEE	1.
	S-IB TEST COMDUCTOR	S-IS STRAMICAL	LV 233 S-IB ELECTRICAL	R HE	PROPEL- IANT (OXIDIZER)	EV 235 SERVICE ARYS OPERATIONS	LV 237 ECS	LV 238 LSE ZECTRICAL	Channel Tay be assigned by the designated
3-1	CSH PA	CSM TEST PROJEC	CSH CLUCTRICAL POWDER	13 0 5	1-3 (O) (-1		LS 227 LS 227 LNVIRON- KENTAL CONTENT	13 228 C3M ACE/G3E	assigned by
11.5	SEU STOR		LS 213 CSM TROUBLE SHOOTING	CCM COMM, INST., AND		SERVICE AEM JPERVIONS	SCRVICE ARM OPERATIONS	EV 218 SERVICE ARM OPERATIONS	and Tay be
150	SUPERVI	13	SEE NOZE	Note:	SFE SPE NOTE	LS left SEF NOTE	SEE STER	186 PAGING	NCTE: Char
171	TEST PLRVI BACKU	<del></del>	SEE NOTE	VEATEER	SEE NOTE	SERVICE ARM OP ERATIONS	SERVICE ARM OPERATICHS	STEVICE ARM OFLRATIONS	
1 1.51	SET	SEE SOTE	SEE ROTE	SEE NOTE	SEE SEE	LV 166 LAUNCE VEHICLE 9. C.	ES 167 SEE	SEE 162 SEE NOTE	r operations.
51 1.71	S S S S S S S S S S S S S S S S S S S	SEE NOTE	CV SEE SUTE	SEE NOTE	51 55 STE NUTE	LV 156 STABILIZER	DNCA DISFEAN	CIF CIF CEDUNO CENTON	ring transfer
17.1	3 LCX	2 tr	SEE NOTE		571 371 - 325 - 371	31.5% CES STATE STATE	50 202 307 307 307 307 307 307 307 307 307 307	IS TAS OK. WILES SEARCO STATION	croware dur.
21 27 13	225		EES COS AT	ars ars	SEL ATT	EV 136 SEE NOTE	SEC	525 ::075:	17/ML by mic
5.5	TEST SUPPOP CONTROL C 4	הל הנהקינום המקינום ה		rrough SZOOZE	TIP SAFETY	PAD OPERATIONS	SUPER	AND EXVINOR:	Available to CT/ML by microware du Tied to ETM.
LI C:	NOTE NOTE	37.5	CULTION 113	NSTAN TTON UPPOL	80.413 ED:413	Hararararararararararararararararararar	OILS OILS COUTAGE ENGINEER	CN. CN. CVIN.	G: AVA

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#### OPERATING STATIONS

#### PEST COMBUCTORS AND TEST MANAGEMENT PERSONNEL

CLO	LAUNCH DIRECTOR (NASA)
LOM	LAUNCH OPERATIONS MANAGER (NASA)
CVT5	SPACE VEHICLE TEST SUPERVISOR (NASA)
MSTC	SPACECRAFT TEST CONDUCTOR (CSM/NASA)
CLTC	LAUNCH VEHICLE TEST CONDUCTOR (NASA)
CTSC	TEST SUPPORT CONTROLLER (NASA)
CUTC	IU STAGE TEST CONDUCTOR (IBM)
C3TC .	S-18 STAGE TEST CONDUCTOR (CHRYS) FR)
CITC	GSE STAGE TEST CONDUCTOR (BOEING)
C4TC	S-IVB TEST CONDUCTOR (MDAC)
BOSC	SUPPORT CONTROLLER (NASA)
BTIS	INSTALLATION SUPPORT CONTROLLER (NASA)
CGIC	INSTRUMENTATION CONTROLLER (NASA)

#### SYSTEMS SAFETY

RIM VATERIAL

CPSS SYSTEMS SAFETY

#### LAUNCH OPERATIONS SECURITY

CTMS SECURITY CONTROLLER

#### NAME SUPPORT

CRS5	RANGE SAFETY SUPERVISOR'S PANEL
Grill	UNIFIED S-BAND GROUND STATION
PSO	RANGE SAFETY OFFICER
Sito	SUPERINTENDENT OF RANGE OPERATIONS

#### PLIGHT CONTROL (MCC)

HELT FLIGHT DIRECTOR: HOUSTON

#### "PLEATIONS PERSONNEL

BORT	CSM PILOT: BACK-UP
PLACH	
8035	LAUNCH SITE RECOVERY FORCES COMMANDER
4600	GROUND COMPUTER COMPLEX FIRING ROOM
SLIM .	TM SYSTEMS ENGINEER
turkF	LV DRSCR SYSTEMS ENGINEER
\$17850	PHOTO COORDINATOR

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OTY CONTROLLER
 BOTV
 BWIC
         WIDEBAHD SYSTEM CENTER/AAS POWER-RECORDER OPERATOR
 BTMC
         IN C/O EQUIPMENT: COMM. MODULE ROOM 2P10
 CEDK
         CRT KEYBOARD - EDS DCC OPERATOR
 CLGK
         CRT KEYBOARD - GUIDANCE COMPUTER
 CLVN
         VEHICLE NETWORKS CONSOLE
 CSAT
         TEST CONDUCTOR, S/C ASST.
 CSA9
         SERVICE ARM 9 CONTROL CONSOLE, COMM. MOD.
 CSPP
         SERVICE ARMS POWER PANEL
 C5T0
         ASTRO COMM.
 CUES
         EDS PREPARATION
 CUEV
         EVENTS DISPLAY (IU)
 CUNP
         NETWORKS PANEL
 CUSW
         NETWORKS SWITCH SELECTOR PANEL
         INDUSTRIAL WATER CONTROL PANEL
 CWCP
 CLMS
         MECHANICAL SYSTEMS ENGINEER
         CUTOFF SENSORS PANEL
CICS
         PROPELLANT DISPERSION AND ORDNANCE (DESTRUCT) PANEL
CIDP
CIFC
         FLIGHT CONTROL RECORDERS
CIFP
         FIRING CONSOLE AND COMPONENT TEST PANEL
CILO
         LOX SYSTEM PANEL
CINP
         NETWORKS PANEL (S-IC)
CIPP
         POWER PANEL (DC)
CISP
         SEQUENCER PANEL
CSDP
         PROPELLANT DISPERSION PANEL
CINP
         METHORICS PANEL (S-II)
         TELEMETRY GROUND STATION (CIF)
ETMS
HARDTOP PAD EGRESS TEAM COMMANDER
        LAUNCH INFORMATION EXCHANGE FACILITY
LIEF
        ACE TEST DIRECTOR, GE
MACE
MLFC
       . FUEL CELL UNIT 12, S/C
        NR TEST PROJECT ENGINEER. UNIT 10. 5/C
MYPE
PEHE
        ENVIRONMENTAL HEALTH ENGINEER
        SYSTEMS SAFETY (PAD)
PVSS
PVTS
        PAD TEST SUPERVISOR
SCDR
        CSM COMMANDER
SEHZ
        MSS HAZARDS MONITOR OPERATOR
UGCU
        WATER GLYCOL CONTROL UNIT OPERATOR
UWGR
        GLYCOL REFRIGERATION UNIT, S/C
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VUMS VURF	IU MEASURING GOST STATION C-BAND RADAR (AND) GOST CHECKOUT
7.1	ABORT MONITOR VISUAL OBSERVER UC-4 (PAD A), UC-12 (PAD B)
zz	ABORT MONITOR VISUAL OBSERVER UC-16 (PADS A & B) - 12.74
23	ABORT MONITOR VISUAL OBSERVER UC-17

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#### LIST OF APBREVIATIONS/ACRONYMS

AAC ABORT ADVISORY CHANNEL AAS ABORT ADVISORY SYSTEM ACE ACCEPTANCE CHECKOUT EQUIPMENT ACS ASTRO-COMMUNICATION SYSTEM AFETR AIR FORCE EASTERN TEST RANGE AIU ABORT INTERFACE UNIT ALC ASTRO LAUNCH CIRCUIT ALDS APOLLO LAUNCH DATA SYSTEM ALSA ASTRONAUT LIFE SUPPORT ASSEMBLY AMPLITUDE MODULATED! AIRLOCK MODULE AM APS AUXILIARY PROPULSION SYSTEM (SWS) MTA APOLLO TELESCOPE MOUNT ATMDC ATM DIGITAL COMPUTER BP BOILERPLATE BPC BOOST PROTECTIVE COVER CADFISS COMPUTATION AND DATA FLOW INTEGRATED SUBSYSTEM CASTS COUNTDOWN AND STATUS TRANSMITTING SYSTEM CB CIRCUIT BREAKER CBRM CHARGER BATTERY RELAY MODULE CCATS COMMUNICATIONS, COMMAND, AND TELEMETRY SYSTEM CCC - COMPLEX CONTROL CENTER CCF CONVERTER COMPRESSOR FACILITY CCS COMMAND COMMUNICATIONS SYSTEM CONTROL AND DISPLAY (ATM) CSD CD COUNTDOWN CD&SC CENTRAL DATA AND SWITCHING CENTER CDC COUNTDOWN CLOCK CDDT COUNTDOWN DEMONSTRATION TEST CDF CONFINED DETONATING FUSE CDU COUPLING DATA UNIT Cara CREW COMPARTMENT FIT AND FUNCTION CH CHANNEL CIF CENTRAL INSTRUMENTATION FACILITY CIU COMPUTER INTERFACE UNIT CMD COMMAND CMGS CONTROL MOMENT GYRO SUBSYSTEM COAS CREW OPTICAL ALIGNMENT SIGHT COMM COMMUNICATION C/O CHECKOUT CRDU COMMAND RELAY DRIVER UNIT CRG CONTROL RATE GYRO CRT CATHODE RAY TUSE CRYO CRYCEENIC

CRAWLER/TRANSFORTER

CAUTION AND WARNING

C/T

CAR

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VEHICLE

DA DADE DAS DB DCS DDAS DEE DPDM DPF DRSCS DRSCR DTC DTCS DTMS DTS DTVC DUA	DEPLOYMENT ASSEMBLY DIGITAL ACQUISITION AND DECOMMUTATION FQUIPMENT DATA ACQUISITION SYSTEM DESIGN BURST DIRECT CURRENT DIGITAL COMMAND SYSTEM DIGITAL DATA ACQUISITION SYSTEM DIGITAL EVENTS EVALUATOR DOUBLE PULSE DURATION MODULATION DIFFERENTIAL PRESSURE FEEDBACK DIGITAL RANGE SAFETY COMMAND SYSTEM DIGITAL RANGE SAFETY COMMAND RECEIVER DESIGN/TEST CONTRACTOR OR CENTER DIGITAL YEST COMMAND SYSTEM DIGITAL TEST MONITORING SYSTEM DATA TRANSMISSION SYSTEM DIGITAL TRANSMISSION AND VERIFICATION CONVERTER DIGITAL TRANSMISSION AND VERIFICATION CONVERTER
EBW ECSC ECSC ECADS EGADS EIM EPSC EPSC ESSC ESSC ESSC ESSC ESSC ESSC	EXPLOSIVE BRIDGE WIRE ENVIRONMENTAL CHAMBER ENVIRONMENTAL CONTROL SYSTEM EXPERIMENT DEVELOPMENT CENTER EMERGENCY DITECTION SYSTEM EMERGENCY EGRESS ATR PACK ELECTRONIC GROUND AUTOMATIC DESTRUCT SYSTEM EXPERIMENT INTEGRATION CENTER ELECTRO-MECHANICAL ELECTROMAGNETIC COMPATIBILITY EXPERIMENT POINTING CONTROL ELECTRICAL POWER SYSTEM EXPERIMENT REQUIREMENTS DOCUMENT EARTH RESOURCES EXPERIMENT PACKAGE ELECTRICAL SUPPORT EQUIPMENT ENGINE SERVICE PLATFORM EXPERIMENT SUPPORT SYSTEM EXPERIMENT SUPPORT SYSTEM EASTERN TEST RANGE EXTRAVENICULAR ACTIVITY
FAS PCC FDS FM FMS FR FSR1 FT . FTR FWD	FIXED AIRLOCK SHROUD  FLIGHT CONTROL COMPUTER (LV)  FLUID DISTRIBUTION SYSTEM  FREQUENCY MODULATION  FOOD SERVICE MANAGEMENT (OWS)  FIRING ROOM (LCC)  FLIGHT SYSTEMS REDUNDANCY TEST  FUNCTIONAL TEST, FOOT  FINAL TEST RACK

FORWARD

VEHICLE

G&C GET GET'S GHE GH2 GLFC GMT GSFC GN2 GO2(GOX) GSE	GUIDANCE AND CONTROL GROUND ELAPSED TIME GROUND EQUIPMENT TEST SET GASEOUS HELIUM GASEOUS HYDROGEN GRAPHITE LM FUEL CASK GREENWICH MEAN TIME GODDARD SPACE FLIGHT CENTER GASEOUS NITROGEN GASEOUS DXYGEN GROUND SUPPORT EQUIPMENT
HCO HDA HGDS - HOSC HPG HS5 HVAC H2 H20 HZ	HARVARD COLLEGE OBSERVATORY HOLDDOWN ARM HAZARDOUS GAS DETECTION SYSTEM HUNTSVILLE OPERATIONS SUPPORT CENTER HIGH PRESSURE GAS HABITABILITY SUPPORT SYSTEM HEATING; VENTILATING; AND AIR CONDITIONING HYDROGEN WATER HERTZ (CYCLES PER SECOND)
ID IEU IGOR ILCA IMU IP IRIG IVA IVA	IDENTIFICATION INTERFACE ELECTRONICS UNIT INTERCEPT GROUND OPTICAL RECORDER INVERTER LIGHT CONTROL ASSEMBLY (AM/MDA) INERTIAL MEASURING UNIT IMPACT PREDICTOR INERTIAL RATE INTEGRATION GYRO; INTER-RANGE INSTRUMENTATION GROUP INSTRUMENT UNIT INTRA VEHICLAR ACTIVITY INDUSTRIAL WATER SYSTEM
KSC LBNP LBR LC LCC LCC LCG LH2 LIEF LO LOM L/O LOS(LOX) LP LRR	KENNEDY SPACE CENTER  LOWER-BODY NEGATIVE PRESSURE LOW BIT RATE LAUNCH COMPLEX LAUNCH CONTROL CENTER LIQUID COOLED GARMENT LIQUID HYDROGEN LAUNCH INFORMATION EXCHANGE SYSTEM LAUNCH OPERATIONS LAUNCH OPERATIONS MANAGER LIFTOFF LIQUID OXYGEN LOW PRESSURE LAUNCH READINESS REVIEW

VEHICLE

LS LSC LSE LSR LUT LV LVDA LVDC LVDC	SPACECRAFT OPERATION (OFFICE SYMBOL) LINEAR SHAPED CHARGE LAUNCH SUPPORT EQUIPMENT LAUNCH SITE RECOVERY LAUNCH UMBILICAL TOWER LAUNCH VEHICLE LAUNCH VEHICLE DATA ADAPTER LAUNCH VEHICLE DIGITAL COMPUTER LAUNCH VEHICLE OPERATIONS
MAP MCC MDA MDF MHZ MILA MITTS ML MODEM MOTS MSFC MSOB MSS	MESSAGE ACCEPTANCE PULSE MISSION CONTROL CENTER MULTIPLE DOCKING ADAPTER MILD DETONATING FUSE MEGA-HERTZ MERRITY ISLAND LAUNCH AREA MOBILE IGOR TRACKING TELESCOPE SYSTEM MOBILE LAUNCHER MODULATOR/DEHODULATOR MOBILE OPTICAL TRACKING SYSTEM MARSHALL SPACE FLIGHT CENTER MANNED SPACECRAFT OPERATIONS BUILDING MOBILE SERVICE STRUCTURE
OA OAT OAT OAT OAT OAT OAT OAT OAT OAT O	ORBITAL ASSEMBLY OVERALL TEST OXYGEN OPERATIONAL INTERCOMMUNICATIONS SYSTEM OPERATIONS INTERFACE CONTROL CHART OPERATIONAL TELEVISION ORBITAL WORKSHOP
PA PAM PCG PCM PCMD PCS PD PDS PI PREPS PSI PTCS PTCS PU PYRO	PUBLIC ADDRESS  PULSE AMPLITUDE MODULATION  POWER CONDITIONING GROUP (AM)  PULSE CODE MODULATION  PARTICLE COUNT MONITORING DEVICE  POINTING CONTROL SYSTEM (ATM)  PROPELLANT DISPERSION  PROPELLANT DISPERSION SYSTEM  PRINCIPAL INVESTIGATOR  PREPARATIONS  PAYLOAD SHROUD  POUNDS PER SQUARE INCH  PAD TERMINAL CONHECTION ROOM  PROPELLANT TANKING COMPUTER SYSTEM  PROPELLANT UTILIZATION  PYROTECHNIC

ec ed elds	OUALITY CONTROL OUICK DISCONNECT OUICK LOOK DATA STATION
RACS RADCC RCS RF RICS RLC RP-1 ROTI RSCR RSO RSS RTC RTCC RTCS	REMOTE AUTOMATIC CALIBRATION SYSTEM RADIOLOGICAL CONTROL CENTER REACTION CONTROL SYSTEM RADIO FREQUENCY RANGE INSTRUMENTATION CONTROL SYSTEM ROTATING LITTER CHAIR ROCKET PROPELLANT = 1 RECORDING OPTICAL TRACKING INSTRUMENT RANGE SAFETY COMMAND RECEIVER RANGE SAFETY OFFICER REFRIGERATION SUBSYSTEM REAL TIME COMPUTER COMPLEX (MCC) REAL TIME COMPUTER SYSTEM (AFETR)
S&A SAL SAS SAWS SCAPE SCO SCS SHE SIM SIT SLCC SLDS SLR	SAFE AND ARM SERVICE ARM SCIENTIFIC AIRLOCK SOLAR ARRAY SYSTEM SOLAR ARRAY WING SIMULATOR SPACECRAFT SELF-CONTAINED ATMOSPHERIC PROTECTIVE FNSEMBLE SPACECRAFT OPERATIONS STABILIZATION AND CONTROL SYSTEM SUPERCRITICAL EHLIUM SIMULATE SOFTWARE INTEGRATED TEST SATURN LAUNCH COMPUTER COMPLEX SKYLAB LAUNCH DATA SYSTEM SKYLAB RESCUE

REVISION ORIGINAL

SRO STC STDN STS SV SWS S-IB S-IC S-II TACS TCE TCH	SUPERINTENDENT OF RANGE OPERATIONS SPACECRAFT TEST CONDUCTOR SPACECRAFT TRACKING AND DATA NETWORK STRUCTURE TRANSITION SECTION SPACE VEHICLE SATURN WORKSHOP SATURN IB LAUNCH VEHICLE SATURN V 1ST STAGE SATURN 2ND STAGE THRUST ATTITUDE CONTROL SUBSYSTEM (SWS) TELEMETRY CHECKOUT EQUIPMENT THRUST CHAMBER TEST AND CHECKOUT PROCEDURE
TCS	TERMINAL COUNT SEQUENCER; THERMAL CONTROL SYSTEM (ATM)
TDDS TDR TM TRS TSM TTY	TELEVISION DATA DISPLAY SYSTEM TIME DOMAIN REFLECTOMETER TELEMETRY TIME REFERENCE SYSTEM TAIL SERVICE MAST TELETYPE
UDL UHF UMB USB UV	UP-DATA LINK ULTRA HIGH FREQUENCY UMBILICAL UNIFIED S-BAND ULTRAVIOLET
VAB VCG VHF VLF VMGSE	VEHICLE ASSEMBLY BUILDING VECTORCARDIOGRAM VERY HIGH FREQUENCY VERY LOW FREQUENCY VEHICLE MEASUREMENT GSE
WCIU WITS WMS W/R	WORKSHOP COMPUTER INTERFACE UNIT: WEST INTEGRATED TEST STAND WASTE MANAGEMENT SYSTEM (OWS) WHITE ROOM
Z-LV	Z-AXIS PARALLEL TO LOCAL VERTICAL

SV OAT #1 (PLUGS IN) - RESCUE VEHICZQLLO/SATURN DATE: JUNE 15, 1973
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### SL-R CAT (PLUGS IN) RF WATRIX

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REMARKS		<del></del>	886	, har		~	L	<u>'</u>			, 1 5 5	E Sea					HF	· · · · · ·	SM
LV		U-DGS	UH		(SCS		REACON				TELEM	ETEY				U	K E N		\$1343 A
UP-LINK FREQ MHZ		450.0			50.0	569	0.0		art c	050.5				r	1		06.4 72287.5		236.83
DN-LINK FREOMHZ SUPPORT	GMIL	ETR	LOCAL	ETR	LOCAL	570 ETR	LOCAL	240.2	256.2	258.5	250.7	255.1		<u> </u>	ļ	1	LOCAL		1235 8 .
3011011	GMIL	LIN	LOOME		LOUNE		LUGAL								<b></b>				
DRSCS CLOSED LOOP TEST			-0 02 55		_0 02 55					_0 nz 55						<b>Y</b>			
			31.		-0.62 53														
PREFLIGHT COMMANDS			- 01 58 /		-0 01:09				, ;		, .	,							
RF AND TM CHECKS POWER TRANSFER DRSCS TEST			0						, · .		1 (1)								
PREFLIGHT COMMANDS DRSCS TEST T =0			-0 00 37	<u></u>	-0 00 13														
FLIGHT COMMANDS DRSCS TEST			₹0 00.16 30 <u>.</u>					Company of the separate and the separate separate	,										Through the department of the
			+0:02 30		+0.02.3v					+0.02 3J		4							
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and a conteger ray in processes were desired and the content was and the content with the content was and the conte			SPACE	VEHICLE TIA	FREQUENCIES
		REMARKS	STAGE	, Link	FREQUENCIES (MHZ)
DUPLEX A B		SC	S-IB	GF-1 GP-1	240, 2 256, 2
7 259.7 295.8 .7 296.8 259.7		UP-LINK FREQUEZ	S-IVB	CP-1	
E GMIL GMIL		SUPPORT	10	DF-1 DP-1	250.7 255.1
		-	CSM		2287.5 2272.5
			RECOVERY BI CSM	EACONS	· 243. D
		T-0			
			LOOP UNLE	TION CLEARANCE ARE SS INDICATED BY © ED LOOP CLEARANCE	E OPEN .
	·		D H M T-D:00:00:		ISED UNLESS REQUIRED)
			US NOT US	SED DURING THIS TES	
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## OST 11 (PLUGS IN) - RESCUE VEHICLE June 15, 1973

URIGINAL

#### LAUNCH OPERATIONS

TEST NO SV-41400R SKYLAB R

COMM COMMAND RESPONSE SEQUENCE DESCRIPTION STA. REMARKS OPERATING STEPS NOTE HAZARDOUS OPERATIONS ARE DENOTED WITH THE LETTER "H" IN THE REMARKS COLUMN. SYSTEMS SAFETY (CPSS) WILL NOT PARTICIPATE IN THIS TEST. ACQUISITION OF DESTRUCT SYSTEM ENABLE AND TCS ARM KEYS WILL BE ACCOMPLISHED BY LAUNCH VEHICLE OPERATIONS. FS HRS 101 011 181 MSTC CVTS VERIFY CLEARANCE TO START TEST. SC POWER WILL BE APPLIED IN APPROXIMATELY 30 MINUTES. ST HRS 1 51 511 181 MSTC CVTS SC POWER UP IS COMPLETE. STARTING SYSTEM TESTING. 132 3 1 50 131 CVTS CLTC MSTC SRO CTSC VERIFY READY TO PROCEED WITH THE SPACE VEHICLE OVERALL TEST NO. 1. 181 CLTC CVTS LV POWER IS COMING ON.

NASA KSL COML APRITI

SV OAT #1 (PLUGS IN) - RESCUE VEHICLE

DATE: JUNE 15, 1973
REVISION ORIGINAL

LAUNCH OPERATIONS

HST NO SV-4140UR SKYLAB R

COMM. COMMAND RESPONSE TIME SEQUENCE DESCRIPTION REMARKS ~4 HRS CONTINUED 317 0" 181 3. CLTC PRESET THE COC AT T-# HOURS . 31 . 0" CVTS COUNTING DOWN. 181 43 CVTS THE SPACE VEHICLE OVERALL TEST NO. 1 EH AT PAD B WILL START ON MY MARK AT T-4 HOURS, 31: 0". PA 5 - 4 - 3 - 2 - 1 - MARK. -4 HRS 10: 0" 181 1 CVTS AAS POWER BUSSES WILL BE REQUIRED AT CTSC T-3 HOURS, 10: 0". HAVE BUTC MONITOR ON CH. 181. -4 HRS 51 0" 181 CVTS AAS POWER SUPPLIES ARE COMING ON. 1 BWIC NOTE . POWER BUS LIGHTS ON CONSOLE AB-6 MAY BE ACTIVATED DURING VOLTAGE CHECKS. ∞3 HRS 461 0! 181 CLTC 1 CYTS LV POWER IS ON. A 2C LORN 33 B. B (REA W SI)

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AT AT (FLUGS IN) - RESCUE VEHICLE

JUVE 15, 1973 URIGINAL

LAUNCH OPERATIONS

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TEST 140 SV-41400R
SKYLAB R

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2 4-7	CH.	SEQUENC	E COMMAN	ATS		VEHICLE	SKYLAB I
a i ya barmana			•	314.		•	REMARKS
1 MS	) )				·		
pr on	- # H - # -						
	161	1	CVTS	LOM	VERIFY THE FOLLOWING SWITCHES ON ABORT REQUEST PANEL ARE OFF	THE	
	State of the state				ABORT REQUEST ENABLE. ABORT REQUE AND ABORT REQUEST B.	ST A.	
	181	2	CVTS	BWIC	TURN ON AAS POWER BUSSES.		
: 4		3		LOM	NOTE THAT THE FOLLOWING LIGHTS ON ABORT REQUEST PANEL GO ON	THE	
V dira .ar a dangia					POWER SUPPLY 1, 2, 3, AAS SUPPLY, ORDNANCE SAFE.	AND	
irs			, ,		· •		
0"		-					
en und de en-claime (spec es en marie princip	181	1	CVTS	SRO	VERIFY RADIATION CLEARANCE FOR THE LOCAL RANGE SAFETY COMMAND CARRIER DRSCS CLOSED LOOP TEST. PROTECTION REGUIRED.		
en disease a magazing g. s.					VERIFY RADIATION CLEARANCE FOR THE LOCAL OPEN LOOP IN COMMAND CARRIER PROTECTION IS REQUIRED.	.Lv	
reder F - LF - of Vyings Japan					VERIFY RADIATION CLEARANCE FOR LV FREQUENCIES 240.2: 256.2: 258.5: 250.7: 255.1: 5690 AND 5765 MHZ.		
s ·	.   '	. '					
;			•		•	j	
: <b>1</b>	81	1   N	ISTC C	VTS 9	SCDR IS ON CH. 212 FOR ABORT LIGHT		
				E	EDS POWER IS COMING ON.	.	į
. Al	01	2   c	VTS C		SC EDS POWER IS COMING ON.		•
-	deliner party services de Roya			Ş	COR IS ON CH. 212 FOR ABORT LIGHT		
•							
	1				•		
	are, to all to draw this winds the day we	1					

SV OAT #1 (PLUGS IN) - RESCUE VEHICLE
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#### LAUNCH OPERATIONS

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TIME	COM/A. CH.	SEGNENCE	COMMAND STA.	RESPONS	P.UCRIPTION	REMARK
					)	
-2 HRS						
	181	1	CLTC	CVTS	VERIFY CLEARANCE TO BRING UP THE LOCAL RANGE SAFETY COMMAND CARRIER TO SUPPORT DRSCS CLOSED LOOP TEST ON CH. 261. (PROTECTION IS REQUIRED.)	
	181	2	CLTC	CVTS	LV STARTING DRSCS TEST. LOCAL RANGE SAFETY COMMAND CARRIER IS COMING ON.	
					NOTE #363cma.	
					THE DETAILED SEQUENCES FOR THE ABORT LIGHT VERIFICATION AND THE DRSCS CLOSED LOOP TEST ARE IN THE LV PROCEDURE.	
	181	3	CLTC	CHTS	ABORT LIGHT CHECK COMPLETE. LV NO LONGER REQUIRES EDS POWER.	
	281	63	CVTS	н <del>і</del> зтс	ABORT LIGHT CHECK COMPLETE. REQUEST EDS POWER OFF.	
. [	101	5	CLTC	CVTS	DRSCS CLOSED LOOP TEST IS COMPLETE.	
-		-			LOCAL RANGE SAFETY COMMAND CARRIER IS OFF.	
	181	6	cvts :	SRO ·	LV LOCAL RANGE SAFETY COMMAND CARRIER IS OFF.	•
	181	7	CLTC C		VERIFY CLEARANCE FOR LOCAL OPEN LOOP IU COMMAND CARRIER. PROTECTION IS REQUIRED.	
					VERIFY CLEARANCE FOR ALL LV RF AND TH SYSTEMS (LV FREQUENCIES 240.2, 256.2, 258.5, 250.7, 259.1, 5690 AND 5765 HHZ.).	1
				ı		i
Com 23 Figuer,	·		.			

OAT 81 (PLUGS IN) - RESCUE VEHICLE
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VEHICLE SKYLAB R

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TMF	COMM CH.	SEGUENCE	STA.	HORSEN DI	DESCRIPTION	00000
		}	1			REMARKS
	CONTI	NUED				
,	181	8	CLTC	CVTS	LOCAL OPEN IU COMMAND CARRIER AND IU COMMAND RECEIVER/DECODER ARE ON.	
2 HRS 0 * U**						
	181	1	MSTC	CVTS	EDS POWER IS OFF.	
2 HRS 5' 0"				-		
	181	1	CVTS	CTSC	VERIFY ALL REQUIRED PERSONNEL AND EQUIPMENT ARE ON STATION READY TO SUPPORT TEST OPERATIONS.	
R HRS			•			
	181.	1	CLTC	CVTS	REQUEST MSS ELEVATOR 2 (WEST) BE LOCKED OUT AT MSS PLATFORM 5 AND MSS PLATFORM 2 BE POSITIONED BELOW LV STATION 1400 TO SUPPORT LONG RANGE THEODOLITE CHECKS.	
	181	2	CVTS	CTSC	LOCK OUT MSS ELEVATOR 2 (WEST) AT MSS PLATFORM 5 AND POSITION MSS PLATFORM 2 BELOW LV STATION 1400 TO SUPPORT LONG RANGE THEODOLITE CHECKS.	Н
					STATION OPERATOR IN MSS ELEVATOR 1.	
. HY2		•				
•   1	181	1. M	ISTC	CVTS	EDS POWER IS COMING ON.	
1	81	2 C	VŢS	CLTC	SC EDS POWER IS COMING ON.	
· I	.81	3 C	TSC .		MSS ELEVATOR 2 (WEST) IS LOCKED OUT AT MSS PLATFORM 5 AND MSS PLATFORM 2 IS BELOW AND WILL REMAIN BELOW LV STATION 1400 UNTIL AFTER T+2' 0".	
					,	·

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LAUNCH OPERATIONS

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ZMIT	COMM.	ESQUENCE		RESPONSS	DESCRIPTION	T
11114	CH.	252521100	STA.	STA.	DESCRIPTION	REMARKS
•						
-2 HRS	CONTE	NUED			•	
0 0 0 0	,					
	181	4;	CLTC	CVTS	VERIFY THAT ELEVATOR 2 ON WEST SIDE	1
					OF MSS IS LOCKED OUT AT PLATFORM 5 AND MSS PLATFORM 2 IS BELOW LV STATION	
					1400.	
1 HR						1
8 0"						
	181	1	CLTC	CVTS	REQUEST CLEARANCE TO BRING UP THE LV	*
line.	2,072	**	54.5	9,15	LOCAL CLOSED LOOP IN COMMAND CARRIER.	
•					PROTECTION IS NOT REGUIRED.	
	1.81	2	CVTS	SRO	VERIFY RADIATION CLEARANCE FOR THE LY	
					LOCAL CLOSED LOOP IU COMMAND CARRIER.	
					PROTECTION IS NOT REGUIRED.	
,	181	3	CVTS	CLTC	BRING UP LOCAL CLOSED LOOP IN COMMAND	1
					CARRIER.	
	161	l;	CLTC	CVTS	LOCAL CLOSED LOOP IU COMMAND CARRIER	
				-	IS ON AND LOCAL OPEN LOOP IU COMMAND	
					CARRIER IS OFF.	
	181	5	CVTS	SRO	LV LOCAL OPEN LOOP IU COMMAND	
İ	·				CARRIER IS OFF.	
1 HR 5 0"					•	
"					•	
	181	1	CVTS	BAIC	TURN ON AAS EVENT RECORDERS AT FAST	
					SPEED.	[
4 210,						
1 HH 5° 0"						
	181	l l	CLTC	CVTS	LV READY FOR EDS TEST. REQUEST	
	. [.		,	,	SCO PERSONNEL SWITCH TO CH. 223.	
		· .			· · · · · · · · · · · · · · · · · · ·	
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de de la companya de						
FC 6 X . 1812 1 LV	4773					SA PSC COM: AFF

ORIGINAL RESCUE VEHICLE CAUSE 15, 1973 LAUNCE

LAUNCH OPERATIONS

. 31 SV-41400R SKYLAB R TEST NO

, i i spinision 1,448	COMM.	SEQUENCE	COMMAND STA.	RESPONSE		
CH TANK	CH.		1174	STA.	DESCRIPTION	. REMARKS
-1 1-R	\$ \$					
	181	1	CVTS	MSTC	VERIFY SC PERSONNEL ARE ON CH. 223	
	181	2	cvts	CLTC	SCO PERSONNEL ARE ON CH. 223 TO SUPPORT EDS TEST.	
	181	3	CVTS	LOM	SWITCH TO CH. 223 TO SUPPORT EDS TEST.	
	223	Ħ	CEDK	roi4	VERIFY ABORT REQUEST ENABLE ON.	
9 cs	223	5	LOM	,	ABORT REQUEST A ENABLED AND REQUEST B ENABLED LIGHTS ARE ON.	
esteloj de dipilionento eve					NOTE	
					IN THE FOLLOWING SEQUENCE DO NOT OPERATE BOTH SWITCHES SYMULTANEOUSLY.	
	223	6	CEDK	Lom	ABORT REQUEST A AND ABORT REQUEST B SVITCHES - ON.	
ender entre en		7		LOM	NOTE THAT REGUEST A TRANSMITTED AND REQUEST B TRANSMITTED LYGHTS GO ON.	٠
- 1	223	8	SCDR		ABORT LIGHT ON.	
The special property of the	823	9	CEDK	Lon	ABORT REQUEST A AND ABORT REQUEST B	
AMPRIMA TODA O . ) ( oc.		10		i	NOTE THAT-REQUEST A TRANSMITTED, REQUEST B TRANSMITTED, REQUEST A RECEIVED LIGHTS GO OFF.	
•	223	11	SCDR		ABORT LIGHT OFF.	The spirit of samples of the spirit of the s
				:		
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LAUNCH OPERATIONS

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AWIL	COMM. CH.	SEQUENCE	COMIAANS STA.	STA.	DESCRIPTION	REMARK
-1 HR 21' 0"						-
	181	1.	CL.TC	CVTS	EDS TEST IS COMPLETE.	
•	181	2	метс	CVTS	EDS POWER IS OFF.	
	381	3	CVTS	CLTC	EDS POWER IS OFF.	
	181	4	CVTS	LOM.	ABORT REQUEST ENABLE SWITCH OFF AND VERIFY.	
		5	,	LOM	NOTE THAT THE FOLLOWING LIGHTS ON THE ABORT REGUEST PANEL ARE OFF	
					REQUEST A ENABLE AND REQUEST B ENABLED.	
	101	6	CVTS	BWIC	TURN OFF AAS EVENT RECORDERS.	
	191	7	BAIC	CVTS	AAS EVENT RECORDERS ARE OFF.	
1 HR 8° 0"						
	202	1	CVTS	SR0	VERIFY RADIATION CLEARANCE FOR THE LV LOCAL RANGE SAFETY COMMAND CARRIER FOR DRSCS CLOSED LOOP TEST. PROTECTION IS REQUIRED.	
HR 6.0						
	182	1	LTC C		VERIFY CLEARANCE TO BRING UP THE LV LOCAL RANGE SAFETY COMMAND CARRIER. (PROTECTION IS REQUIRED.)	
	ror	2 0	CLTC C	evis	LOCAL RANGE SAFETY COMMAND CARRIER IS COMING ON.	
FAM 23 918 (52 M)						

ORIGINAL PRESCUE VEHICLE

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## LAUNCH OFFEATIONS

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	7	ICO TABLANI	N. P. CONTRACT		SKYLAB
CH	STOURNCE	· STA.	STA.	DESCRIPTION	REMARKS
				,	
				NOTE	
				LV POWER TRANSCER IS	
				SCHEDULED TO OCCUR AT	
				11 (A) (A) (A)	
				•	
181	1	CLTC	CYTS	HOLD THE CDC AT T-50'0" FOR 5 MINUTES FOR GMT RESET.	
201	2	CVTS	MSTC		
			SRO	THE CDC WILL BE STOPPED AT T-50'0" FOR 5 MINUTES FOR GHT RESET.	
				STARTING 5 MIKUTE SCHEDULED	
			,	HOLD FOR GMT RESET	
101	1	CVTS	CLTC		
			MSTC	• •	
			CTSC	THE COUNT IS HOLDING FOR 5'0" FOR GMT R	ESET.
1.81	. 2	CLTC	CVTS		
				JUST PRIOR TO RESUMING COUNT	
				বান প্ৰদাৰ্থন কৰিছ প্ৰদাৰ প্ৰদাৰ কৰি প্ৰদাৰ কৰি কৰি কৰি কৰি কৰি কৰি কৰি কৰি কৰি কৰ	
181	3				
			SRO	THE CDC WILL BE RESTARTED AT THESE OF	
				ON MY HARK.	
				5 ~ 4 ~ 3 ~ 2 ~ 1 ~ MARK	
İ			•		
1	1	İ		•	1
	101	181 1	181 1 CLTC 201 2 CVTS 181 2 CLTC 181 3 CVTS	181 1 CLTC CYTS  181 2 CVTS MSTC SRO CTSC  181 2 CLTC CVTS  181 3 CVTS CLTC MSTC SRO CTSC  181 3 CVTS CLTC MSTC SRO CTSC	LV POWER TRANSFER IS SCHEDULED TO OCCUR AT THIS TIME  1 CLTC CVTS HOLD THE CDC AT 1-50*0" FOR S MINUTES FOR GMT RESET.  201 2 CVTS MSTC SRO CTSC THE CDC HILL BE STOPPED AT T-50*0" FOR S MINUTES FOR GMT RESET.  STARTING S MINUTE SCHEDULED  HOLD FOR GMT RESET  401 1 CVTS CLTC MSTC SRO CTSC THE COUNT IS HOLDING FOR S*0" FOR GMT R CTSC THE COUNT IS HOLDING FOR S*0" FOR GMT R OF HOLD.  181 2 CLTC CVTS LV READY TO RESUME COUNT AT COMPLETION OF HOLD.  181 3 CVTS CLTC MSTC SRO CTSC THE CDC WILL BE RESTARTED AT T-50*0" ON MY MARK.

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181 1 MSTC CVTS VERIFY CPSS PERMISSION TO ARM SC PYRO BUSSES (CPSS PERMISSION SIMULATED).  EDS POWER IS COMING ON.  181 2 CVTS CLTC EDS POWER IS COMING ON.  181 3 MSTC CVTS CSM BUSSES ARE ARMED (PYRO AND LOGIC).  181 4 LOM CVTS THE ABORT REQUEST PANEL ORDNANCE ARMED LIGHT IS ON AND ORDNANCE SAFE LIGHT IS OFF.  "" THE LES IS TO BE ARMED " " BEFORE PROCEEDING WITH " " LV DRSCS TEST. (REF. " " SEQ. 3, T-44' 0"). " " " " " " " " " " " " " " " " " " "	REMARK			DESCRIPTION	RESPONSE STA.	STA.	SEQUENCE	COMM, CH.	WE	11/
BUSSES (CPSS PERMISSION SIMULATED).  EDS POWER IS COMING ON.  181 2 CVTS CLTC EDS POWER IS COMING ON.  181 3 MSTC CVTS CSM BUSSES ARE ARMED (PYRO AND LOGIC).  181 4 LOM CVTS THE ABORT REQUEST PANEL ORDNANCE ARMED LIGHT IS ON AND ORDNANCE SAFE LIGHT IS OFF.  "" THE LES IS TO BE ARMED " "BEFORE PROCEEDING WITH " "LV DRSCS TEST. (REF. " "SEQ. 3, T-44' 0"). " "" SEQ.		•				-			0"	- <i>L</i> <sub>1</sub> <i>L</i> <sub>1</sub> 1
181 2 CVTS CLTC EDS POWER IS COMING ON.  181 3 MSTC CVTS CSM BUSSES ARE ARMED (PYRO AND LOGIC).  181 4 LOM CVTS THE ABORT REQUEST PANEL ORDNANCE ARMED LIGHT IS ON AND ORDNANCE SAFE LIGHT IS OFF.  *** THE LES IS TO BE ARMED **  *** EBFORE PROCEEDING WITH **  *** LV DRSCS TEST. (REF. **  *** SEQ. 3, T-44' 0"). **  *** WHEREMARKHERHERHERHERHERHERHERHERHERHERHERHERHERH		0	O ARM SC PYRO SIMULATED).	CPSS PERMISSION TO ARK	CVTS	иѕтс	1	181		
181 3 MSTC CVTS CSM BUSSES ARE ARMED (PYRO AND LOGIC).  181 4 LOM CVTS THE ABORT REQUEST PANEL ORDNANCE ARMED LIGHT IS ON AND ORDNANCE SAFE LIGHT IS OFF.  """ THE LES IS TO BE ARMED """ """ """ """ """ """ """ """ """ "				VER IS COMING ON.						
LOGIC).  LOGIC).  LOGIC).  LOGIC).  CVTS THE ABORT REQUEST PANEL ORDNANCE ARMED LIGHT IS ON AND ORDNANCE SAFE LIGHT IS OFF.  """  "" THE LES IS TO BE ARMED ""  "" LV DRSCS TEST. (REF. ""  "" SEQ. 3, T-44' 0"). ""  """  """  """  LOTIC CLEAR TO PROCEED WITH DRSCS TEST.  CVTS DRSCS TEST IS COMPLETE. LOCAL OPEN LOOP IU COMMAND AND LOCAL RANGE SAFETY COMMAND CARRIERS ARE ON (PROTECTION IS REQUIRED).  LOCAL CLOSED LOOP IU COMMAND CARRIER				VER IS COMING ON.	CLTC	CVTS	2	181		
LIGHT IS ON AND ORDNANCE SAFE LIGHT IS  OFF.  ********************************			RO AND	SSES ARE ARMED (PYRO AN	CVTS .	мѕтс	3	181		
# THE LES IS TO BE ARMED # BEFORE PROCEEDING WITH # LV DRSCS TEST. (REF. # SEQ. 3, T-44'0"). # # ################################	•	ED IS	ORDNANCE ARME SAFE LIGHT I	ORT REQUEST PANEL ORDNA S ON AND ORDNANCE SAFE		LOM	t <sub>t</sub>	181	,	
181 1 CLTC CVTS DRSCS TEST IS COMPLETE. LOCAL OPEN LOOP IU COMMAND AND LOCAL RANGE SAFETY COMMAND CARRIERS ARE ON (PROTECTION IS REQUIRED).  LOCAL CLOSED LOOP IU COMMAND CARRIER			X MED X VITH X F. X X	HE LES IS TO BE ARMED BEFORE PROCEEDING WITH V DRSCS TEST. (REF. SEQ. 3, T-44' 0").		·				
181 1 CLTC CVTS DRSCS TEST IS COMPLETE. LOCAL OPEN LOOP IU COMMAND AND LOCAL RANGE SAFETY COMMAND CARRIERS ARE ON (PROTECTION IS REQUIRED).  LOCAL CLOSED LOOP IU COMMAND CARRIER			CS TEST.	O PROCEED WITH DRSCS T	CLTC	CVTS	5	181		
LOOP IU COMMAND AND LOCAL RANGE SAFETY COMMAND CARRIERS ARE ON (PROTECTION IS REQUIRED).  LOCAL CLOSED LOOP IU COMMAND CARRIER				•					0''	37 <b>'</b>
LOCAL CLOSED LOOP IU COMMAND CARRIER			RANGE RE ON	COMMAND AND LOCAL RAN COMMAND CARRIERS ARE O		CLTC	1	181		
IS OFF.	,		AND CARRIER	LOSED LOOP IU COMMAND					,	
					,					
				•						
	1				-				1	

NASA KE COME APPOR

SV OAT #1 (PLUGS IN) - RESCUE VEHICLE DATE, JUNE 15, 1973

FEA:21C4A ORIGINAL

LAUNCH OPERATIONS

PAGI 35 TEST NO SV-41400R

SKYLAB R

THASA KIC COME ATE 21

TIME	COMIA. CH.	SCONENCE	COMMAND STA.	RESPONSE STA.	DESCRIPTION	REMARKS
						SULFRA
-371 0		NUED			•	
	181	2	CVTS	SRO	LV LOCAL OPEN LOOP IU COMMAND AND LOCAL RANGE SAFETY COMMAND CARRIERS ARE ON. PROTECTION IS REQUIRED.	
		•			LV LOCAL CLOSED LOOP IU COMMAND CARRIER IS OFF.	
~35° 0"						
	181	1	CLTC	CVTS	NEW LIFTOFF TIME IS	,
					HRS MIN SEC	
				`	CLOSING OF LAUNCH WINDOW IS	
					O GIFT O	
					HRS MIN . SEC	
	181	. 5	CVTS		READ BACK TIMES TO CLTC FOR CONFERMATION.	
			,			
	ŀ	,				
			,			
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1224238101864 4/7						

SV OAT #1 (PLUGS IN) - RESCUE VEHICLE
DATE: JUNE 15, 1973
REVISION ORIGINAL LAUNCE

LAUNCH OPERATIONS

PACE TEST NO 36 SV-41400R SKYLAB R

CVYS NOTE CALCULATION REQUIRED TO DETERMINE COUNT CLOCK PICKUP TIME AT Y-15  NEW LIFTOFF TIME HRS MIN SEC  MINUS 15 00 AND SEC  MINUS 15 00 AND SEC  CDC PICKUP	TIME	COMM.	SEQUENCE	COMMAND STA.	RESPONSE STA.	DESCRIPTION	REMARKS
CVYS NOTE CALCULATION REQUIRED TO DETERMINE COUNT CLOCK PYCKUP TIME AT Y-15  NEW LIFTOPF GMT. TIME HRS MIN SEC  MINUS 15 00 15 MINUTES MIN SEC  CDC MINUS 15 00 PICKUP GMT.  HRS MIN SEC  CDC GMT.  HRS MIN SEC  AT CONCLUSION OF T-15'D" HOLD FOR CDC LIFTOFF ADJUSTMENT THE COUNT WILL BE RESUMED AT  HRS MIN SEC  AT CONCLUSION OF T-15'D" HOLD FOR GMT.  HRS MIN SEC  CDC LIFTOFF ADJUSTMENT THE COUNT WILL BE RESUMED AT  GMT.  HRS MIN SEC  CDLDING COULT TO MIN SEC  THE COUNT IS HOLDING FOR LIFTOFF ADJUSTMENT— ADJUSTMENT.	**************************************			J	300.		REMARK
LIFTOFF TIME  HRS  MINUS  15  00  15 MINUTES  MIN SEC  CDC  PICKUP  TIME  HRS  MIN SEC  CDC  PICKUP  TIME  HRS  MIN SEC  AT CONCLUSION OF T-15*0" HOLD FOR CDC LIFTOFF ADJUSTMENT THE COUNT WILL  BE RESUMED AT  GMT.  AT CONCLUSION OF T-15*0" HOLD FOR CDC LIFTOFF ADJUSTMENT THE COUNT WILL  BE RESUMED AT  GMT.  HRS  MIN SEC  CDC  LIFTOFF ADJUSTMENT  HRS  MIN SEC  THE COUNT IS HOLDING FOR LIFTOFF  ADJUSTMENT.	·35† 0°	CONTI			cvrs	COUNT CLOCK PICKUP TIME AT Y-15	-
LDING STARTING HOLD FOR LIFTOFF ADJUSTMENT  LOUNG STARTING HOLD FOR LIFTOFF ADJUSTMENT  LOUNG STARTING HOLD FOR LIFTOFF ADJUSTMENT  ADJUSTMENT  THE COUNT IS HOLDING FOR LIFTOFF ADJUSTMENT.					,	TIME expressions constrained enterior constrained e	
PICKUP TIME HRS MIN SEC CDC LIFTOFF ADJUSTMENT START TIME CDC LIFTOFF ADJUSTMENT THE COUNT WILL BE RESUMED AT  HRS MIN SEC  LDING STARTING HOLD FOR LIFTOFF ADJUSTMENT THE COUNT IS HOLDING FOR LIFTOFF ADJUSTMENT.			,	,		15 NINUTES management augmenture	
AT CONCLUSION OF T-15:0" HOLD FOR CDC LIFTOFF ADJUSTMENT THE COUNT WILL BE RESUMED AT  HRS NIN SEC  LDING 5: 0"  182 1 CVTS  THE COUNT IS HOLDING FOR LIFTOFF ADJUSTMENT			,			PICKUP en em an en en en en en en en en en en en en en	
CDC LIFTOFF ADJUSTMENT THE COUNT WILL BE RESUMED AT  GMT.  HRS MIN SEC  LDING 5' 0"  THE COUNT IS HOLDING FOR LIFTOFF ADJUSTMENT.	.81 01					CDC LIFTOFF ADJUSTMENT START TIME exerce CONTROL OF THE CONTROL OF	•
HRS MIN SEC  LDING 5' 0"  THE COUNT IS HOLDING FOR LYPTOFF ADJUSTMENT.		EM	<b>3.</b>	cvts		CDC LIFTOFF ADJUSTMENT THE COUNT WILL	
191 1 CYTS THE COUNT IS HOLDING FOR LIFTOFF ADJUSTMENT.	,					देश क्षेत्र करने क्षेत्र एक	
191 1 CVTS THE COUNT IS HOLDING FOR LIFTOFF ADJUSTMENT.	LDING 5' O'				कम दर्भ दर्भ	STARTING HOLD FOR LIFTOFF ADJUSTMENT	
		EM	1	CYTS		THE COUNT IS HOLDING FOR LIFTOFF	
			•				,

14" A KNE COME NEED TO

155 1000 118 B [RIV 4771]

SV JAT EI (PLUGS IN) - RESCUE VEHICLE
JUNE 15, 1973
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LAUNCH OPERATIONS

37 SV-41400R SKYLAB R PAGE TEST NO

101

Y.572	CH.	STOUENCE	COMMAND STA.	STA.	DESCRIPTION	· REMARK
,	i				',	
HCLDIN						
-15; O	CONTI	MUED			•	
					HER BICT BOTOD TO DECIPIENTS COUNTY	
					PRIOR TO RESUMING COUNTMAN	
	181 CM PA	2	CVTS	,	THE CDC WILL BE RESTARTED AT T-15. 0" ON MY MARK.	
					5 - 4 - 3 - 2 - 1 - MARK.	
14:30				,		
	56I ·	1	СЧТС	CLTC	S-IVB START TANK CHILLDOWN IS IN PROGRESS.	
91 584						
	261	1.	CHTC	CLTC.	S-IVB TCH CHILLDOWN IS IN PROGRESS.	
61 30"						
	261	. 1	CLTC	CUES	EDS MODE TO LAUNCH.	
	261	2				
•	C. C. S.	S.s	on to	CUMP	INHIBIT SWITCH SELECTOR AND RESET COUNTER.	
			'			
5 . 0".						
	181	1.	MSTC	CVTS	SC IS GO.	
	131	а	CVYS	SRO	VERIFY GO FOR TERMINAL COUNT.	
30"						
, Jo.,	į			•		
	261	1	CLTC C	CENP	FUNCTION SELECTOR TO LAUNCH AND VERIFY ALL STAGES READY FOR POWER TRANSFER	
			-		ON.	-
					•	,
					·	
		ļ			•	

SV OAT #1 (PLUGS IN) - RESCUE VEHICLE

DATE: JUNE 15, 1973

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LAUNCH OPERATIONS

38 **SV-41**400R **SKYLAB** R 1151 NO

VEHICLE

ZMIT	COIAM.	STOUENCE	COMMAND STA.		VEHICLE	REMARKS
	- 33		3174	STA.		ELMANT.3
~51 Q"						
3 · · · ·						
	261	1	CLTC	CSSP	ARM TCS	
-45 30'	j					
ლd./ 30.						
					ななななかなながななCAUTIONがななかなかなかなかなか。 な	
					* S-1VB CHILLDOWN MUST BE *	
					# COMPLETE PRIOR TO THE # * * * * * * * * * * * * * * * * * *	
					* SEQUENCE. *	
					在在海水市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市	
•	261	1	CLTC	cusw	LVDA/ESE TO LVDA.	
			. • •			
mit c Oca						
	101	1	CVTS	CLTC	CLEARED FOR LAUNCH.	
	161	2	CVTS		NOTE	
	261			•	ति <del>४७ ता</del> द्ध	
					COUNT TIME ANNOUNCEMENTS	
				•	The state of the s	
٠		·			-3:30" TO -0:40" EVERY 10 SECONDS.	,
	1				-0'40" TO -0'15" EVERY 5 SECONDS.	
-					-0111" TO -010" EVERY 1 SECOND.	
73.0 6.11						
31 6"						
	261	1	C3FR		VERIFY FIRING COMMAND IS ON (H).	
		•		•.		
0' 0"						
.	261	1	C3FR		COMMIT.	
į			9211		COMMIT !	
						İ
į						

7 41 (PLUGS IN) - RESCUE VEHICLE 70.80 15, 1973 JEHGINAL LAUNC

## LAUNCH OPERATIONS

39 SV-41400R PAGE TEST NO

SKYLAB R VEHICLE

the state of the s	- दलमध 	SEQUENCE	SIA.	ND RESPONS	DESCRIPTION	REMARI
G1 6"	CONT	NUED				
	•	2			**************************	
	*				We are a restrict to the same of the same	
	, ,				* BY CLVN WITHIN 4 *	
	1				* SECONDS OF COMMET. *	
	<u>.</u>				· · · · · · · · · · · · · · · · · · ·	
	A The second of the second of	3		CLVN	SIMULATED LIFTOFF ENABLE ON (START TIME BASE).	
' 0"					·	
· · · ·						TB-1 +0'0"
	201	· 1	CLTC		LIFTOFF (PANEL LIGHT AND OTV).	1.0.0
		2.		CSFR		
, !					DEL EXIG	
o"				,		
energy of night of	181	. 1	CLTC	CVTS	MSS ELEVATOR 2 (WEST) AND PLATFORM 2. ARE RELEASED FOR NORMAL SERVICE.	
Erran zenten erranten	181	s	CVTS	СТБС	RETURN MSS ELEVATOR 2 AND PLATFORM 2 TO NORMAL SERVICE.	
)						
- 1	181	1	CUTC	CDO	Non-many	
*			CVTS		VERIFY RADIATION CLEARANCE FOR THE LY LOCAL RANGE SAFETY COMMAND CARRIER AND THE LY LOCAL CLOSED LOOP IU COMMAND CARRIER. PROTECTION IS REQUIRED.	
t Ca						,
1						TB~4
;	261	1	мътс	CVTS	EDS POWER IS GOING OFF.	
,						
:	1,					
:						
1						
					•	

SV OAT #1 (PLUGS IN) - RESCUE VEHICLE

OATE: JUNE 15, 1973

REVISION ORIGINAL LAUNCE

LAUNCH OFERATIONS

PAGE 40 TEST NO SV-41400R SKYLAB R

VEHICLE

TIME	COMM. CH.	SEQUENCE	COMMAND STA.	RESPONSE STA.	DESCRIPTION	REMARKS
415' O	CONT	INUED			· · · · · ·	TB-4 +5* 0"
	1.81	2	MSTC	CVTS	PYRO BUSSES ARE SAFE.	
					EDS POWER IS OFF.	
'	181	3	CVTS	CLTC	EDS POWER IS OFF.	
	181	4	LOM	CYTS	THE ABORT REQUEST PANEL ORDNANCE SAFE THIGHT IS ON AND THE ORDNANCE ARMED LIGHT IS OFF.	
	161	5	CVTS	BWIC	POWER DOWN AAS POWER BUSSES AND POWER SUPPLIES.	
,	161	6	BMIC	CVTS	AAS POWER BUGSES AND POWER SUPPLIES ARE POWERED DOWN.	
		7.		LOM	NOTE THAT THE FOLLOWING LIGHTS ON THE ABORY REQUEST PANEL ARE OFF.	
					POWER SUPPLY 10 20 30 AAS SUPPLY: AND ORDNANCE SAFE.	
÷16†30°						TB-4 +7'30"
	181	1.	CLTC		VERIFY CLEARANCE FOR LOCAL CLOSED LOOP IU COMMAND AND LOCAL RANGE SAFETY COMMAND CARRIERS. PROTECTION IS REQUIRED.	
						!
		. •				
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SV OAT #1 (PLUGS IN) - RESCUE VEHICLE
LAD JUNE 15, 1973
HORO, ORIGINAL LAUNG

LAUNCH OPERATIONS

PAGE 41 SV-41400R SKYLAB R TEST NO

÷16°30" 6	CONTI	NUED			NOTE	TB=4 +7*30
					LV LOCAL CLOSE LOOP IU COMMAND CARRIER WILL BE ON AND LV LOCAL OPEN LOOP IU COMMAND CARRIER WILL BE OFF DURING LV DRSCS TEST. LV LOCAL OPEN LOOP IU COMMAND CARRIER WILL BE ON AND LV LOCAL CLOSED LOOP WILL BE OFF AFTER LV DRSCS TEST. LV DRSCS TEST IS IN THE LV PROCEDURE AT TB-4. T+7.30".	
1	81	2	CLTC	CVTS	LOCAL OPEN LOOP IU COMMAND CARRIER IS OFF AND LOCAL CLOSED LOOP IU COMMAND CARRIER IS ON.	
1.6	81	3.	CLTC	CYTS	LOCAL CLOSED LOOP IU COMMAND CARRIER IS OFF AND LOCAL OPEN LOOP IU COMMAND CARRIER IS ON.	
. 2.6	81	tş .	CVTS	SRO	LV LOCAL CLOSED LOOP IU COMMAND CARRIER IS OFF AND LOCAL OPEN LOOP IU COMMAND CARRIER IS ON.	
0. 0.		٠.				
16	51	4	CTSC	CVTS	MSS ELEVATOR 2 RETURNED TO NORMAL SERVICE.	
HR On						
.28	31	. 1	MSTC	CVTŞ	PYRO BUSSES WILL BE ARMED.	
				. '		1
				,		

SV DAT #1 (PLUGS IN) - RESCUE VEHICLE JUNE 15, 1973
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LAUNCH OPERATIONS

42 PA7-1 TEST NO SV-41400R SKYLAB R

71442	сомм.	SEQUENCE	COMMAND	RESPONSE	AFIICIF	
· [ PCE	CH.	21002103	STA.	STA.	DESCRIPTION	REMARK
						1.
I KR						
42, 0d						
	181	1	MSTC	CVTS	PYRO BUSSES ARE SAFE.	
	<b></b>		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		the passing title states	
1 HR						
45 04						
	181	1	MSTC	A1157.00		
	20%		Marc	CVIS	CSM BEGINNING SPACECRAFT POWER DOWN.	
į						
HRS			1			
5000						
	181	1.	METC	CUSE		
	હહાર	*	MSTC	617	SPACECRAFT POWER DOWN IS COMPLETE.	
2 HRS					\	
	181	2	CVTS	SRO	VERIFY RADIATION CLEARANCE FOR THE LV	
1				, ,	LOCAL CLOSED LOOP IN COMMAND CARRIER. PROTECTION IS NOT REQUIRED.	
.				•		,
HRS					•	TB~5
0, 0,					•	+54151
	181	2.	CLTC	CVTS	VERIFY CLEARANCE FOR LOCAL CLOSED LOOP	
					IU COMMAND CARRIER (PROTECTION IS NOT	
	-				REGUIRED).	
	261	. 2	CLTC	CVTS .	LOCAL OPEN LOOP IU COMMAND CARRIER IS	
	ļ		[		OFF AND LOCAL CLOSED LOOP IU COMMAND	
					CARRIER IS ON.	
		. [				1
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P+ 27 818 27 V						

SV OAT #1 (PLUGS IN) - RESCUE VEHICLE
DATE: JUNE 15, 1973
FEVISION ORIGINAL LAUNCE

LAUNCH OPERATIONS

PAGE 43 1831NO SV-41400R SKYLAB R

PMIT	CH CH	SEGUENCE	COMMAND STA.	STA. DESCRIPTION	REMARKS
-2 HR: 301		NUED		,	TB-5 +54 • 54 •
				NOTE.	
				LV LOCAL CLOSED LOOP IU COMMAND CARRIER WILL BE ON AND LV LOCAL OPEN LOOP IU COMMAND CARRIER WILL BE OFF DURING LV DRSCS TEST.	
				LV DRSCS TEST IS IN THE LV PROCEDURE AT TB-5, T+54154".	
	181	3	CLTC	CVTS DRSCS TEST IS COMPLETE.	
				LOCAL RANGE SAFETY COMMAND CARRIER IS	
	. 181	4	CLTC	AND LOCAL CLOSED LOOP IN COMMAND CARRIER IS DISABLED.	
	181	5	CVTS S	IN LU LOCAL RANGE SAFETY COMMAND CARRIER IS OFF: LV LOCAL CLOSED LOOP IU COMMAND CARRIER IS OFF: LV LOCAL OPEN LOOP IU COMMAND CARRIER IS OFF:	
•	181	6	curc c	VTS LV RF AND TH CLEARANCE IS NO LONGER REQUIRED.	
•	281	7 0	vts s	RO ALL LV RF AND TH SYSTEMS ARE OFF.	
		,		SV OAT PLUGS IN TEST IS COMPLETE.	
	181	8 . 0	VTS C	TSC SV OAT PLUGS IN TEST IS COMPLETE.	And the state of t
			·	TUD OF AWAR AND A	-
٠	.			END OF OPERATING STEPS	
				·	

## LA-PLN-1 DISTRIBUTION FOR TCF SV-41400 SL-3 OAT #1 (PLUGS IN)

1 2 3 25 1	DD-EDD IM-HSD-12 IM-ONO IN-ONO IS-PEM	White Stevens Parrish Coonce Dalcy	2 1 2 2 10	AFETR, DOOP AFETR, DOOT AFETR, PAPP MU595 AFETR, PAPO, MU5420 MSC/FC-7	Walker Glines
1	IS-PEN-1	สิสทรงท	1	hspc/no-e	Kimery
1	IS-PEM-2	Gray	. 3	MSFC/HO-OL	Ladner
i	IS-PEM-4	Cullen	1	MSFC/SNT-A	Moody
1	IS-PEM-22	Jamleson	1	MSFC/SAT-A	Repository
•	15.7.22	Verden	1	omsf/mao	Hol.comb
3	IS-SEC	Horner	2	BEM-2100 LCC 1R18	Amas
1	IS-TSM	Brown	3	BEN-2320 VAB 1B6	
1	LA-PLN	Moser	3	BEN-2350, HQ 1503	Pope
6	LCC 4R8	Schick	1	BEN-4120, HQ 2549	Compton Reed
1	LS-OPN	Page	2	BOFL-73, OSC 2116	Larson
	*********	'			nan son
1	LSOPN1	Chauvin	1	BOFL-73, OSC 2116	Weinberg
1	LS-OPN-3	Proffitt	5 .	BOIM-36, VAB 2L4	Melten
1	LV-GDC	Lealman	2	BOFM-39, VAB 2L10	Scholz
2	LV-INS-1	Buffman	1	BOF0-31, OFC 3121	Kramp
1	I.VOHO1	Slogar	1	BOZS-00, K6-1045	Ballard
2	LV=OMO=3	17			
1	LV-PLN	Youmans	2	BOFF-00, VAB 7E14	Maxwell
i	SF-OPN	Nagle	3	CHRY~16, VAB 15B7	O'Dell.
1	SO	Woods	1	FEC-200, MC-335, 123	Stein
i	SO-OPN-1	Gorman	1	FEC-300, CIF 310	Dell.
•	SO-OFW-1	Pyles	1	FEC-810, M6-339	Booksow
1	TS	Hindezman	1	1977 0 10 M. C. C. C. C. C. C. C. C. C. C. C. C. C.	
2 1	TSNTS1	Huber	1	FEC-820, M6-339, 202	Tveter
1	TS-OSM	Gramling	7	FEC-870, MG-138, 117	Decter
2	TS-OSM	Smith	3	GE-AS, OSC 3018	Fowler
2	CEK-2A	Messimer	1.	IBM-G13, VAB 2N5	Witt
	•	م درم ده چې ځاره ده پښترو		NR, ZK-20, OSC 3079.	Nurnberg
1	DDK-4	Elliott	1	NR, ZK~49, OSC 3088	
1 '	GUSB	Jenkins	•	willianda	Cloyd
3	KM	Williams	10:	Li A on PLIU on 1	Library
5	PSK	Horse	10.	TITE THE TOTAL TOT	GRIFFIN .
3	AFETR, DONO	,	•		

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